

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☒ original
- ☐ divisional
- ☐ continuation
- ☐ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

IN-SITU STABILIZED HIGH CONCENTRATION BPSG FILMS FOR PMD APPLICATION

SPECIFICATION IDENTIFICATION

The specification of which:

- ☒ is attached hereto
- ☐ was filed on {Filing Date}, under Serial No. {Serial No.}, executed on even date herewith; or ☐ Express Mail No.(as Serial No. not yet known) and was amended on _____ (if applicable)
- ☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, 1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America or of any United States Provisional Application(s) listed below, and have also

identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

- ☒ No such applications have been filed.
☐ Such applications have been filed as follows:

- A. Prior foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. § 119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>	
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
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- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

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Application No:
Filing date:

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		<u>Patented Pending</u>	<u>Abandoned</u>

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I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Peter J. Sgarbossa	Registration No. 25,610
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Michael B. Einschlag	Registration No. 29,301
Joseph Bach	Registration No. 37,771
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Walter Benjamin Glenn	Registration No. 44,713

Robert W. Mulcahy

Registration No. 25,436

my patent attorneys and/or agents of APPLIED MATERIALS, INC, located at M/S 2061, 3050 Bowers Avenue, Santa Clara, California 90504, and

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Send correspondence to:

Direct telephone calls to:

Patent Counsel, MS/2061
Legal Affairs Dept.
Applied Materials, Inc.
3050 Bowers Avenue
Santa Clara, CA 95054.

Michael A. Bernadicou
(408) 720-8300

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of **sole or first** inventor: Steve Ghanayem

Inventor's signature: _____

Date: _____

Residence: Los Altos, CA
Post Office Address: 1586 Morton Avenue
Los Altos, CA 94024
U.S.A.

Country of Citizenship: USA

Full name of **second** inventor: Daniel A. Carl

Inventor's signature: _____

Date: _____

Residence: Pleasanton, CA
Post Office Address: 2161 Pomezia Court
Pleasanton, CA 94566
U.S.A.

Country of Citizenship: USA

Full name of **third** inventor: John T. Boland

Inventor's signature: _____

Date: _____

Residence: Scotts Valley, CA
Post Office Address: 213 Sidesaddle Circle
Scotts Valley, CA 95066
U.S.A.

Country of Citizenship: USA

Full name of **fourth** inventor: Cary Ching

Inventor's signature: _____

Date: _____

Residence: Sunnyvale, CA
Post Office Address: 948 E. Cardinal Drive
Sunnyvale, CA 94087
U.S.A.

Country of Citizenship: USA

Full name of **fifth** inventor: Zheng Yuan

Inventor's signature: _____

Date: _____

Residence: Fremont, CA
Post Office Address: 42024 Benbow Drive
Fremont, CA 94539
U.S.A.

Country of Citizenship: USA

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Michael A. Bernadicou
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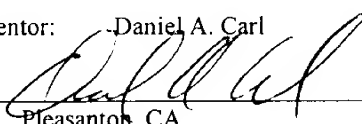
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Full name of **sole** or **first** inventor: Steve Ghanayem

Inventor's signature: _____ Date: _____
Residence: Los Altos, CA
Post Office Address: 1586 Morton Avenue
Los Altos, CA 94024
U.S.A. Country of Citizenship: USA

Full name of **second** inventor: Daniel A. Carl

Inventor's signature:  Date: 7-19-01
Residence: Pleasanton, CA
Post Office Address: 2161 Pomezia Court
Pleasanton, CA 94566
U.S.A. Country of Citizenship: USA

Full name of **third** inventor: John T. Boland

Inventor's signature: _____ Date: _____
Residence: Scotts Valley, CA
Post Office Address: 213 Sidesaddle Circle
Scotts Valley, CA 95066
U.S.A. Country of Citizenship: USA

Full name of **fourth** inventor: Cary Ching

Inventor's signature: _____ Date: _____
Residence: Sunnyvale, CA
Post Office Address: 948 E. Cardinal Drive
Sunnyvale, CA 94087
U.S.A. Country of Citizenship: USA

Full name of **fifth** inventor: Zheng Yuan

Inventor's signature: _____ Date: _____
Residence: Fremont, CA
Post Office Address: 42024 Benbow Drive
Fremont, CA 94539
U.S.A. Country of Citizenship: USA

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Registration No. 25,436

my patent attorneys and/or agents of APPLIED MATERIALS, INC, located at M/S 2061, 3050 Bowers Avenue, Santa Clara, California 90504, and

William E. Alford, Reg. No. 37,764; Farzad E. Amini, Reg. No. 42,261; William Thomas Babbitt, Reg. No. 39,591; Carol F. Barry, Reg. No. 41,600; Jordan Michael Becker, Reg. No. 39,602; Lisa N. Benado, Reg. No. 39,995; Bradley J. Berezna, Reg. No. 33,474; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 46,149; Gregory D. Caldwell, Reg. No. 39,926; Thomas M. Coester, Reg. No. 39,637; Donna Jo Coningsby, Reg. No. 41,684; Florin Corie, Reg. No. 46,244; Mimi Diemmy Dao, Reg. No. 45,628; Dennis M. deGuzman, Reg. No. 41,702; Stephen M. De Klerk, Reg. No. 46,503; Michael Anthony DeSanctis, Reg. No. 39,957; Daniel M. De Vos, Reg. No. 37,813; Justin M. Dillon, Reg. No. 42,486; Sanjeet Dutta, Reg. No. 46,145; Matthew C. Fagan, Reg. No. 37,542; Tarek N. Fahmi, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,532; George Fountain, Reg. No. 37,374; James Y. Go, Reg. No. 40,621; James A. Henry, Reg. No. 41,064; Libby N. Ho, Reg. No. 46,774; Willmore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W. Hoover II, Reg. No. 32,992; Eric S. Hyman, Reg. No. 30,139; William W. Kidd, Reg. No. 31,772; Sang Hui Kim, Reg. No. 40,450; Walter T. Kim, Reg. No. 42,731; Eric T. King, Reg. No. 44,188; George Brian Leavell, Reg. No. 45,436; Kurt P. Leyendecker, Reg. No. 42,799; Gordon R. Lindeen III, Reg. No. 33,192; Jan Carol Little, Reg. No. 41,181; Robert G. Litts, Reg. No. 46,876; Julio Loza, Reg. No. P47,758; Joseph Lutz, Reg. No. 43,765; Michael J. Mallie, Reg. No. 36,591; Andre L. Marais, Reg. No. P048,095; Paul A. Mendonsa, Reg. No. 42,879; Clive D. Menezes, Reg. No. 45,493; Chun M. Ng, Reg. No. 36,878; Thien T. Nguyen, Reg. No. 43,835; Tinh V. Nguyen, Reg. No. 42,034; Robert B. O'Rourke, Reg. No. 46,972; Daniel E. Ovanezian, Reg. No. 41,236; Kenneth B. Paley, Reg. No. 38,989; Gregg A. Peacock, Reg. No. 45,001; Marina Portnova, Reg. No. 45,750; William F. Ryann, Reg. No. 44,313; James H. Salter, Reg. No. 35,668; William W. Schaal, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Jeffrey S. Schubert, Reg. No. 43,098; George Simion, Reg. No. 47,089; Maria McCormack Sobrino, Reg. No. 31,639; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; John F. Travis, Reg. No. 43,203; Joseph A. Twarowski, Reg. No. 42,191; Mark C. Van Ness, Reg. No. 39,865; Tom Van Zandt, Reg. No. 43,219; Brent E. Vecchia, Reg. No. P48,011; Lester J. Vincent, Reg. No. 31,460; Archana B. Vittal, Reg. No. 45,182; Glenn E. Von Tersch, Reg. No. 41,364; John Patrick Ward, Reg. No. 40,216; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,154; and Norman Zafman, Reg. No. 26,250; my patent attorneys, and Firasat Ali, Reg. No. 45,715; and Raul Martinez, Reg. No. 46,904, my patent agents, of BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800, and James R. Thein, Reg. No. 31,710, my patent attorney with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send correspondence to:

Direct telephone calls to:

Patent Counsel, MS/2061
Legal Affairs Dept.
Applied Materials, Inc.
3050 Bowers Avenue
Santa Clara, CA 95054.

Michael A. Bernadicou
(408) 720-8300

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

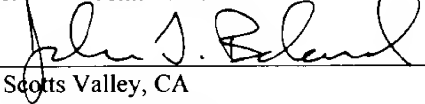
Full name of **sole or first** inventor: Steve Ghanayem

Inventor's signature: _____ Date: _____
Residence: Los Altos, CA
Post Office Address: 1586 Morton Avenue
Los Altos, CA 94024
U.S.A. Country of Citizenship: USA

Full name of **second** inventor: Daniel A. Carl

Inventor's signature: _____ Date: _____
Residence: Pleasanton, CA
Post Office Address: 2161 Pomezia Court
Pleasanton, CA 94566
U.S.A. Country of Citizenship: USA

Full name of **third** inventor: John T. Boland

Inventor's signature:  Date: 11-July-2001
Residence: Scotts Valley, CA
Post Office Address: 213 Sidesaddle Circle
Scotts Valley, CA 95066
U.S.A. Country of Citizenship: USA

Full name of **fourth** inventor: Cary Ching

Inventor's signature: _____ Date: _____
Residence: Sunnyvale, CA
Post Office Address: 948 E. Cardinal Drive
Sunnyvale, CA 94087
U.S.A. Country of Citizenship: USA

Full name of **fifth** inventor: Zheng Yuan

Inventor's signature: _____ Date: _____
Residence: Fremont, CA
Post Office Address: 42024 Benbow Drive
Fremont, CA 94539
U.S.A. Country of Citizenship: USA

(Declaration ends with this page)

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☒ original
☐ divisional
☐ continuation
☐ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

IN-SITU STABILIZED HIGH CONCENTRATION BPSG FILMS FOR PMD APPLICATION

SPECIFICATION IDENTIFICATION

The specification of which:

- ☒ is attached hereto
☐ was filed on {Filing Date}, under Serial No. {Serial No.}, executed on even date herewith; or ☐ Express Mail No.(as Serial No. not yet known) and was amended on _____ (if applicable)
☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, 1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America or of any United States Provisional Application(s) listed below, and have also

identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

- ☒ No such applications have been filed.
☐ Such applications have been filed as follows:

A. Prior foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. § 119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>	
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No

B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:
Application No:
Filing date:

PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

- ☒ No such applications have been filed
☐ Such applications have been filed, as follows:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>	
		<u>Patented Pending</u>	<u>Abandoned</u>

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Peter J. Sgarbossa	Registration No. 25,610
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Michael B. Einschlag	Registration No. 29,301
Joseph Bach	Registration No. 37,771
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Walter Benjamin Glenn	Registration No. 44,713

Robert W. Mulcahy

Registration No. 25,436

my patent attorneys and/or agents of APPLIED MATERIALS, INC, located at M/S 2061, 3050 Bowers Avenue, Santa Clara, California 90504, and

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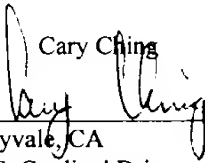
Full name of **second** inventor: Daniel A. Carl

Inventor's signature: _____ Date: _____
Residence: Pleasanton, CA
Post Office Address: 2161 Pomezia Court
Pleasanton, CA 94566
U.S.A. Country of Citizenship: USA

Full name of **third** inventor: John T. Boland

Inventor's signature: _____ Date: _____
Residence: Scotts Valley, CA
Post Office Address: 213 Sidesaddle Circle
Scotts Valley, CA 95066
U.S.A. Country of Citizenship: USA

Full name of **fourth** inventor: Cary Ching

Inventor's signature:  _____ Date: 6/27/2007
Residence: Sunnyvale, CA
Post Office Address: 948 E. Cardinal Drive
Sunnyvale, CA 94087
U.S.A. Country of Citizenship: USA

Full name of **fifth** inventor: Zheng Yuan

Inventor's signature: _____ Date: _____
Residence: Fremont, CA
Post Office Address: 42024 Benbow Drive
Fremont, CA 94539
U.S.A. Country of Citizenship: USA

(Declaration ends with this page)

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☒ original
- ☐ divisional
- ☐ continuation
- ☐ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

IN-SITU STABILIZED HIGH CONCENTRATION BPSG FILMS FOR PMD APPLICATION

SPECIFICATION IDENTIFICATION

The specification of which:

- ☒ is attached hereto
- ☐ was filed on {Filing Date}, under Serial No. {Serial No.}, executed on even date herewith; or ☐ Express Mail No.(as Serial No. not yet known) and was amended on _____ (if applicable)
- ☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

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identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

- ☒ No such applications have been filed.
☐ Such applications have been filed as follows:

A. Prior foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. § 119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>	
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No

B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:
Application No:
Filing date:

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<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>	
		<u>Patented Pending</u>	<u>Abandoned</u>

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Donald Verplancken	Registration No. 33,217
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Raymond Kam-On Kwong	Registration No. 37,165
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Residence: Los Altos, CA
Post Office Address: 1586 Morton Avenue
Los Altos, CA 94024
U.S.A. Country of Citizenship: USA

Full name of **second** inventor: Daniel A. Carl

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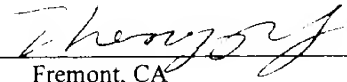
Full name of **third** inventor: John T. Boland

Inventor's signature: _____ Date: _____
Residence: Scotts Valley, CA
Post Office Address: 213 Sidesaddle Circle
Scotts Valley, CA 95066
U.S.A. Country of Citizenship: USA

Full name of **fourth** inventor: Cary Ching

Inventor's signature: _____ Date: _____
Residence: Sunnyvale, CA
Post Office Address: 948 E. Cardinal Drive
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